

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/071104 A1

(51) International Patent Classification⁷: C12Q 1/68

(21) International Application Number:
PCT/AU2005/000078

(22) International Filing Date: 24 January 2005 (24.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004900344 23 January 2004 (23.01.2004) AU

(71) Applicant (for all designated States except US): GARVAN
INSTITUTE OF MEDICAL RESEARCH [AU/AU]; C/-
St. Vincent's Hospital, 384 Victoria Street, Darlinghurst,
New South Wales 2010 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SCHOFIELD,
Peter [AU/AU]; 5 Culloden Road, Marsfield, New South
Wales 2122 (AU). BLAIR, Ian [AU/AU]; 3 Ardsley
Avenue, Frenchs Forest, New South Wales 2086 (AU).

(74) Agent: F B RICE & CO.; 605 Darling Street, Balmain,
New South Wales 2041 (AU).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ASSAY FOR BIPOLAR AFFECTIVE DISORDER

(57) Abstract: The present invention provides a method of diagnosing bipolar affective disorder (BAD) and for determining a pre-
disposition of a subject to bipolar affective disorder. In particular, the methods of the present invention comprise detecting a marker
that comprises one or more polymorphisms at position 4q35.2 of the human genome and/or one or more allelic variants of the FAT
gene associated with BAD or linked thereto. The present invention also relates to identifying new markers that are diagnostic of
bipolar affective disorder. Furthermore, the present invention relates to methods of identifying and producing candidate compounds
for the treatment of bipolar affective disorder.

WO 2005/071104 A1